

TRANSMITTAL LETTER TO THE UNITED STATES
DESIGNATED/ELECTED OFFICE (DO/EO/US)
CONCERNING A FILING UNDER 35 U.S.C. 371

ATTORNEY'S DOCKET NUMBER

1952

U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR

10/049773

INTERNATIONAL APPLICATION NO.
PCT/EP 00/06699INTERNATIONAL FILING DATE
JULY 13, 2000PRIORITY DATE CLAIMED
AUGUST 10, 1999TITLE OF INVENTION
ANGLE BRACKETAPPLICANT(S) FOR DO/EO/US
Stefan LIND

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This is an express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39(1).
4. ☒ A proper Demand for International Preliminary Examination was made by the 19th month from the earliest claimed priority date.
5. ☒ A copy of the International Application as filed (35 U.S.C. 371 (c) (2))
 - a. ☐ is transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☒ has been transmitted by the International Bureau.
 - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ A translation of the International Application into English (35 U.S.C. 371(c)(2)).
7. ☐ A copy of the International Search Report (PCT/ISA/210).
8. ☐ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371 (c)(3))
 - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
 - b. ☐ have been transmitted by the International Bureau.
 - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
 - d. ☐ have not been made and will not be made.
9. ☐ A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
10. ☒ An oath or declaration of the inventor(s) (35 U.S.C. 371 (c)(4)).
11. ☐ A copy of the International Preliminary Examination Report (PCT/IPEA/409).
12. ☐ A translation of the annexes to the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371 (c)(5)).

Items 13 to 18 below concern document(s) or information included:

13. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98.
14. ☒ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
15. ☐ A **FIRST** preliminary amendment.
A **SECOND** or **SUBSEQUENT** preliminary amendment.
16. ☐ A substitute specification.
17. ☐ A change of power of attorney and/or address letter.
18. ☒ Certificate of Mailing by Express Mail
19. ☐ Other items or information:

ET 473368358 US

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U.S. APPLICATION NO. (IF KNOWN, SEE 37 CFR

INTERNATIONAL APPLICATION NO.

ATTORNEY'S DOCKET NUMBER

10/049773**PCT/EP 00/06699****1952**

20. The following fees are submitted:

CALCULATIONS PTO USE ONLY**BASIC NATIONAL FEE (37 CFR 1.492 (a) (1) - (5)) :**

- ☐ Search Report has been prepared by the EPO or JPO **\$930.00**
- ☐ International preliminary examination fee paid to USPTO (37 CFR 1.482) **\$720.00**
- ☐ No international preliminary examination fee paid to USPTO (37 CFR 1.482) but international search fee paid to USPTO (37 CFR 1.445(a)(2)) **\$790.00**
- ☒ Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO **\$1,070.00**
- ☐ International preliminary examination fee paid to USPTO (37 CFR 1.482) and all claims satisfied provisions of PCT Article 33(2)-(4) **\$98.00**

ENTER APPROPRIATE BASIC FEE AMOUNT =**\$890.00**Surcharge of **\$130.00** for furnishing the oath or declaration later than ☐ 20 ☐ 30 months from the earliest claimed priority date (37 CFR 1.492 (e)).**\$0.00**

CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE
Total claims	4 - 20 =	0	x \$18.00
Independent claims	1 - 3 =	0	x \$80.00

\$0.00**\$0.00**Multiple Dependent Claims (check if applicable). ☐**\$0.00****TOTAL OF ABOVE CALCULATIONS =****\$890.00**Reduction of 1/2 for filing by small entity, if applicable. Verified Small Entity Statement must also be filed (Note 37 CFR 1.9, 1.27, 1.28) (check if applicable). ☐**\$0.00****SUBTOTAL =****\$890.00**Processing fee of **\$130.00** for furnishing the English translation later than ☐ 20 ☐ 30 months from the earliest claimed priority date (37 CFR 1.492 (f)).**\$0.00****TOTAL NATIONAL FEE =****\$890.00**Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31) (check if applicable). ☒**\$40.00****TOTAL FEES ENCLOSED =****\$930.00****Amount to be:****refunded**

\$

charged

\$

☐ A check in the amount of _____ to cover the above fees is enclosed.

☒ Please charge my Deposit Account No. **19-4675** in the amount of **\$930.00** to cover the above fees.
A duplicate copy of this sheet is enclosed.

☒ The Commissioner is hereby authorized to charge any fees which may be required, or credit any overpayment to Deposit Account No. **19-4675** A duplicate copy of this sheet is enclosed.

NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.

SEND ALL CORRESPONDENCE TO:

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SIGNATURE

MICHAEL J. STRIKER

NAME

27233

REGISTRATION NUMBER

JANUARY 18, 2002

DATE

Description**Angle fixing**

The invention relates to an angle fixing. Such angle fixings are known for fixing shelves to a wall, for example, or for fixing other components, especially plate-like components, to one another at an angle. The known angle fixings have two limbs arranged at an angle, usually 90°, to one another.

The problem underlying the invention is to propose such an angle fixing that can be used more universally.

That problem is solved according to the invention by the features of claim 1. The angle fixing according to the invention has two limbs, the relative angular position of which one to another can be adjusted by pivoting the limbs. The limbs of the angle fixing according to the invention can be set at angles departing from the customary 90°. The limbs of the angle fixing can be locked in position on one another in order that an angle that has been set can be maintained unchanged. The angle fixing according to the invention has the advantage that it enables two components to be fixed to one another at an adjustable and therefore selectable angle.

In a preferred configuration of the invention, the two limbs of the angle fixing are substantially identical to one another. This reduces the number of different components to one, namely the identically constructed limbs, thereby reducing the complexity and cost of manufacture. The limitation "substantially identical" is provided in order that relatively small differences of the two limbs of the angle fixing from one another, such as, for example, a screw thread provided only in one of the two limbs, are not excluded from the scope of protection.

In a preferred configuration of the invention, the limbs of the angle fixing have a longitudinal sectional surface that is constant over their width in terms of shape and size. The limbs can therefore be produced in a continuous drawing or extrusion process in the form of a profiled bar, from which the limbs are cut. The limbs and therefore the angle fixing can thus be manufactured in a cost-effective manner.

The invention will be described in greater detail below with reference to an embodiment which is shown in the drawing.

Figure 1 is a perspective view of an angle fixing according to the invention; and

Figure 2 is a side view of the angle fixing of Figure 1.

The angle fixing 10 according to the invention, as shown in the drawing, is composed of two limbs 12. The two limbs 12 are produced from metal, for example an aluminium alloy, in a drawing process in the form of a profiled bar and are cut therefrom. The two limbs 12 are therefore identically constructed and have a longitudinal cross-sectional surface that is constant over their entire width, which surface is congruent with the side view of the limbs 12 shown in Figure 2.

In each of the limbs 12 there is provided an elongate hole 14 for screwing the angle fixing 10 to two components (not shown) that are to be joined to one another at an angle using the angle fixing 10.

Three arcuate tongues 16, 18, 20 project from each limb 12, which tongues all project to the same side and are formed integrally with the limb 12. A first tongue 16 is arranged at the end of the limb 12. Between the first tongue 16 and the second tongue 18 there is a gap, the width of which corresponds to a thickness of the two tongues 16, 18. The third tongue 20 is arranged on the limb 12 spaced slightly further apart from the two other tongues 16, 18. All three tongues 16, 18, 20 extend circumferentially over less than a quarter circle; in the embodiment shown the three tongues 16, 18, 20 extend over a circumferential angle from about 70° to only just 90°.

In the third tongue 20 of one limb 12 there is provided an elongate hole 22 extending circumferentially, and in the third tongue 20 of the other limb 12 there is provided a threaded bore 24. The two limbs 12 are assembled at an angle to one another to form the angle fixing 10 according to the invention in such a manner that the first tongue 16 of one limb 12 lies between the first and second tongues 16, 18 of the other limb 12, and *vice versa*, and the second tongue 18 of the other limb 12 lies between the first and second tongues 16, 18 of the first limb 12. The two third

tongues 20 rest in surface contact with one another. The two limbs 12 can be pivoted relative to one another and thus their relative angular position one to another can be varied. In so doing, the first and second tongues 16, 18, lying one within the other, and the third tongues 20, resting one against the other, of the two limbs 12 are displaced relative to one another. A fixing screw 26 passes through the elongate hole 22 in the third tongue 20 of one limb 12 and is screwed into the threaded bore 24 in the third tongue 20 of the other limb 12. By tightening the fixing screw 26, the two third tongues 20 are clamped one against the other and the limbs 12 are fixed in their relative angular position one to another. The angle between the two limbs 12 of the angle fixing 10 according to the invention can be adjusted and the limbs 12 can be locked in position at the angle set.

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Patent claims

1. Angle fixing, **characterised in that** the angle fixing (10) has two limbs (12) that can be pivoted and locked in position relative to one another.
2. Angle fixing according to claim 1, **characterised in that** the two limbs (12) are substantially identical.
3. Angle fixing according to claim 1, **characterised in that** the limbs (12) have a longitudinal sectional surface that is constant over their width.
4. Angle fixing according to claim 1, **characterised in that** the two limbs (12) of the angle fixing (10) have tongues (16, 18, 20) projecting arcuately therefrom, which tongues engage in one another and/or rest against one another and guide the two limbs (12) pivotally on one another.

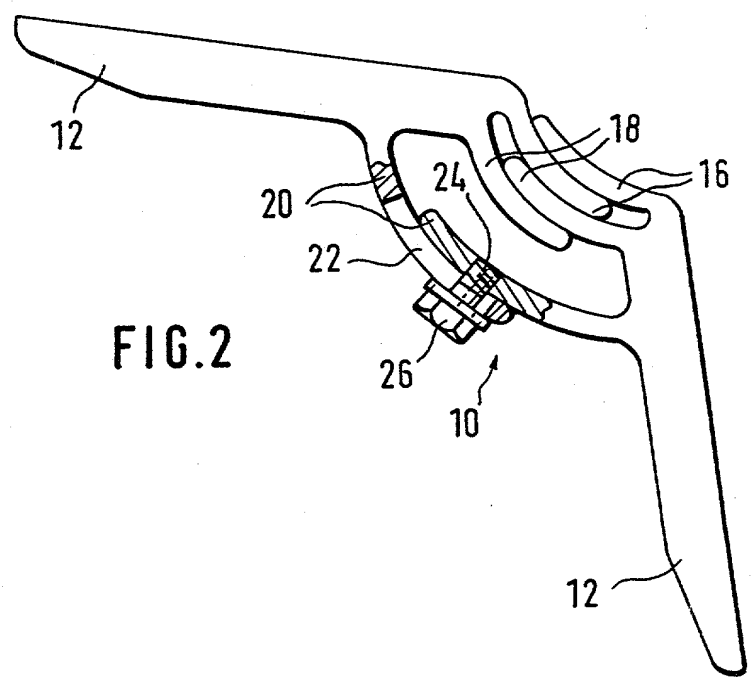
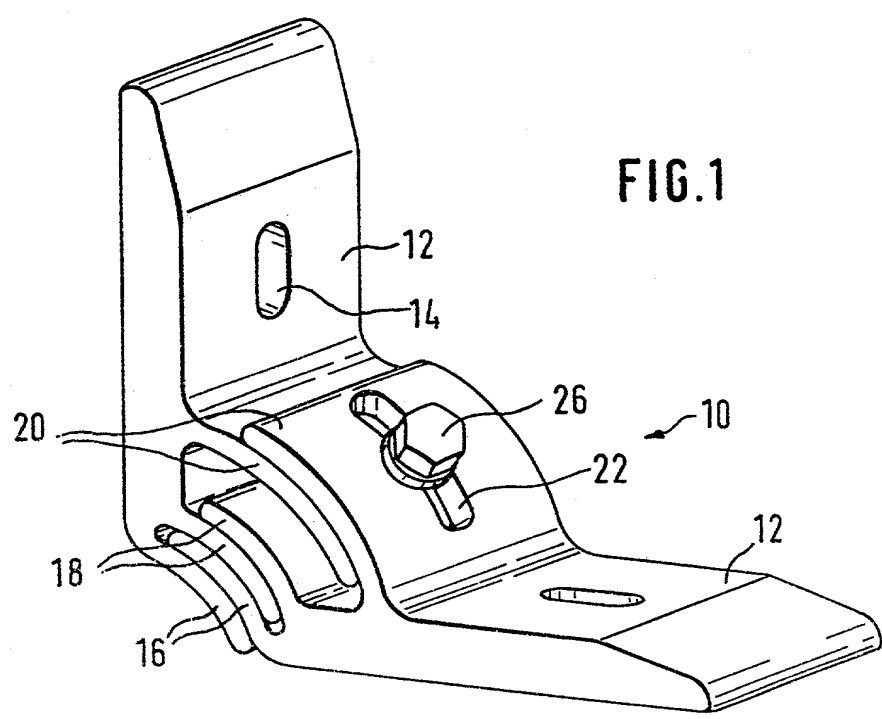
Abstract

Angle fixing

The invention relates to an angle fixing (10) with which, especially, plate-like components can be fixed to one another at an angle. In order that such an angle fixing can be used universally for a variety of angled positions, it is proposed that the angle fixing (10) be constructed with two limbs (12) that can be pivoted and locked in position relative to one another. (Figure 1)

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DECLARATION AND POWER OF ATTORNEY FOR NATIONAL STAGE OF PCT PATENT APPLICATION

As a below-named inventor, I hereby declare that:

Stefan LIND

My residence, post office address and citizenship are as stated below next to my name.

I believe I am the original, first and sole inventor (if only name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled **ANGLE BRACKET** the specification of which was filed as PCT International Application number PCT/EP 00/06699 on July 13, 2000.

I hereby state that I believe the named inventor or inventors in this Declaration to be the original and first inventor or inventors of the subject matter which is claimed and for which a patent is sought.

I hereby state that I have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

I acknowledge the duty to disclose all information which is material to the patentability of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56.

I hereby claim foreign priority benefits under Title 35, United States Code, Section 119(a)-(d) or Section 365 (b) of any foreign application(s) for patent or inventor's certificate, or Section 365(a) of any PCT International application which designated at least one country other than the United States, listed below and have also identified below, by checking the box, any foreign application for patent or inventor's certificate or PCT International application having a filing date before that of the application on which priority is claimed.

Prior foreign application(s):

Priority claimed:

<u>299 13 904.2</u>	<u>GERMANY</u>	<u>AUGUST 10, 1999</u>	<u>X</u>	
(Number)	(Country)	(Date filed)	Yes	No
<u> </u>	<u> </u>	<u> </u>	<u> </u>	<u> </u>
(Number)	(Country)	(Date filed)	Yes	No


As a named inventor, I hereby appoint the following attorney to prosecute this application and to transact all business in the Patent and Trademark Office connected therewith:

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U.S.A.

I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that wilful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such wilful false statement may jeopardize the validity of the application or any patent issued thereon.

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Full Name of Fourth Inventor:	Citizenship:	
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Full Name of Fifth Inventor:	Citizenship:	
Signature:	Date:	Residence and Full Postal Address:
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